

WHAT IS CLAIMED:

1. A lancet device, comprising:
a housing;
a needle holding member in the housing for holding a lancet;
5 a biasing element for biasing the needle holding member toward an extended position;
a trigger for releasing the needle holding member from a retracted position; and
a cap for covering the housing and for positioning the lancet device relative to a skin surface, the cap comprising a first cap member having threads and a second cap member having threads, the cap further comprising at least one protrusion on one of the first cap member and second cap member, the at least one protrusion being capable of engaging and disengaging at least one stop associated with the threads of the other of the first cap member and the second cap member as the first cap member and the second cap member are rotated relative to each other.
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2. The lancet device of claim 1, wherein the at least one stop comprises at least one recess.
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3. The lancet device of claim 1, wherein the at least one stop comprises at least one projection.
4. The lancet device of claim 1, wherein the threads of the other of the first member and the second member comprise a groove and a ridge, and wherein the at least one stop is located in the groove.
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5. The lancet device of claim 1, wherein the threads of the other of the first member and the second member comprise a groove and a ridge, and wherein the at least one stop is located in the ridge.

5 6. The lancet device of claim 1, wherein the at least one protrusion comprises a nipple.

7. The lancet device of claim 1, wherein the at least one protrusion comprises a spring-biased ball.

8. The lancet device of claim 1, wherein the at least one protrusion is on an interior of the cap.

10 9. The lancet device of claim 1, wherein the at least one protrusion comprises a plurality of protrusions.

15 10. The lancet device of claim 1, wherein the first cap member comprises a surface for aligning the lancet device on skin of a patient, the surface having an opening for a needle in the needle holding member to pass through, and wherein the at least one protrusion is on the second cap member.

11. The lancet device of claim 1, wherein the first cap member comprises a surface for aligning the lancet device on skin of a patient, the surface including an opening for a needle in the needle holding member to pass through, and wherein the at least one protrusion is on the first cap member.

12. The lancet device of claim 1, wherein a length of the cap is adjustable by rotation of the first cap member relative to the second cap member for adjusting a penetration depth of a needle in the needle holding member.

13. The lancet device of claim 1, wherein the at least one protrusion is connected to a button for releasing the at least one protrusion from the at least one stop.

14. The lancet device of claim 1, wherein the at least one protrusion is biased into the at least one stop.

15. The lancet device of claim 1, wherein the first cap member and the second cap member are rotatable relative to each other in both a clockwise and a counter-clockwise direction.

16. The lancet device of claim 1, wherein each of the at least one protrusion is formed on one of a single groove and a single ridge of the threads of one of the first cap member and the second cap member;

wherein when one of the at least one protrusion is formed on a said single groove of one of the first cap member and the second cap member, a corresponding at least one stop is formed on a ridge of the threads of the other of the first cap member and the second cap member; and

wherein when one of the at least one protrusion is formed on a said single ridge of one of the first cap member and the second cap member, a corresponding at least one stop is formed on a groove of the threads of the other of the first cap member and the second cap member.

17. The lancet device of claim 1, wherein the at least one stop is in the threads.

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18. The lancet device of claim 1, wherein the at least one protrusion is fixed on the one of the first cap member and second cap member.

19. The lancet device of claim 1, wherein the at least one stop is fixed on the other of the first cap member and the second cap member.

5 20. The lancet device of claim 1, wherein the at least one protrusion is fixed on the one of the first cap member and second cap member, and wherein the at least one stop is fixed on the other of the first cap member and the second cap member.